



E1900
JACC March 27, 2012
Volume 59, Issue 13



Quality of Care and Outcomes Assessment

LONG-TERM FOLLOW-UP IN MARFAN PATIENTS AFTER SUCCESSFUL SURGERY FOR ACUTE TYPE A AORTIC DISSECTION. THE IRAD EXPERIENCE

ACC Moderated Poster Contributions
McCormick Place South, Hall A
Monday, March 26, 2012, 11:00 a.m.-Noon

Session Title: Predictors, Correlations, and Outcomes
Abstract Category: 31. Quality of Care and Outcomes Assessment
Presentation Number: 1257-329

Authors: *Amit Korach, Marco Di Eusanio, Kevin Greason, Daniel Montgomery, Matthias Voehringer, Kevin Harris, Anthony DiScipio, Mark Fillinger, Rossella Fattori, Santi Trimarchi, Lori D. Conklin, Kim Eagle, Eric Isselbacher, Christoph Nienaber, Dan GILON, Hadassah Hebrew University Medical Center, Jerusalem, Israel*

Background: Life expectancy of patients (pts) with Marfan Syndrome (MS) is shorter than that of the general population. The long-term outcome after surgery for aortic dissection (AD) is less clear. The large patient cohort in IRAD facilitates the investigation of long-term outcomes in surgically managed acute type A AD pts with MS compared to those without the disease.

Methods: Our study evaluated 775 surgically-managed Type A AD pts enrolled in IRAD between 1996 and 2011, with follow-up available at 1, 2 and/or 3 years post-discharge. The pts were divided into groups based on presence (n=36, 4%) or absence of MS. Categorical variables were analyzed using chi-square test and Fischer's exact test where applicable. Continuous variables were analyzed using student's t-test for normally distributed data, and test of medians for non-normally distributed data.

Results: The mean age was significantly lower for MS pts (34.8 ± 10.3 years vs 60.0 ± 12.4 years [$p < 0.001$]). They also had more aortic insufficiency at presentation (68.8% vs 39.5% [$p=0.001$]). More MS pts were normotensive on presentation (64.7% vs 44.1% [$p=0.018$]). Significantly more concomitant procedures were performed in the MS group (60% compared to 36% [$p=0.004$]). Their aortic root dimension was larger (5.8 cm compared to 4.2 [$p < 0.001$]). Extension of dissection, defined as post-operative involvement of additional arteries that resulted as a sequelae of the AD, was higher in the MS (9.1%) compared to the non-MS group (1.5%) ($p=0.021$). Systolic blood pressure was lower at one year (119.2 ± 12.4 vs 130.3 ± 21.5 [$p=0.036$]) and at three years (114 ± 5 vs 131 ± 17 [$p=0.026$]) in MS pts. Also at three years the total aortic diameter was significantly increased in 66.7% of MS pts compared to 21.3% in the non-MS group ($p=0.024$). Kaplan-Meier survival curve showed no significant difference in survival between the two groups from discharge to three year follow-up.

Conclusion: Our data show that MS pts after surgery for type A AD are more likely to have extension of dissection and increased aortic diameters on follow-up, despite lower systolic blood pressure and similar mortality at three years post-op. This suggests closer follow-up is important for pts with MS.